

Also available on  
3 1/2" disks.  
Details inside.

For Personal Computers Running the  
MS-DOS® Operating System

# Microsoft® Macro Assembler 5.0

Run Watch Options Language Cal

c:\runme.A

.CODE

mov ax,@data

mov ds,ax

SS the same

» Auto

Basic

C

Fortran

Pascal

Now includes Microsoft®  
CodeView®!

**Microsoft®**

Microsoft® Macro Assembler  
For Personal Computers Running the MS-DOS® Operating System

t®



## Microsoft® Macro Assembler

**Now Microsoft Macro Assembler Version 5.0 puts all the speed and power of assembly-language subroutines within easy reach.**

The screenshot shows the Microsoft Macro Assembler interface. The 'Source' window displays assembly code with comments. The 'Registers' window shows the state of various registers. The 'Output' window shows the assembled code. The 'Trace' window shows the execution of instructions.

Microsoft® CodeView® allows you to debug programs written in a Microsoft language using your source code, comments, variable names, and data declarations.

The screenshot shows the Microsoft Macro Assembler interface. The 'Source' window displays assembly code with comments. The 'Registers' window shows the state of various registers. The 'Output' window shows the assembled code. The 'Trace' window shows the execution of instructions.

With Microsoft Macro Assembler Version 5.0, you can now write and debug assembly-language programs for the 80386. You can also disassemble 80386 instructions and display the extended 80386 register set.

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0887 Part No. 016-014-035

For Personal  
Computers Running  
the MS-DOS®  
Operating System

### System Requirements

- 256K available user memory (320K recommended)
- MS-DOS 2.0 or higher
- Two double-sided disk drives

Microsoft Macro Assembler Version 5.0 gives you clear, step-by-step instructions that help you write and link assembly-language subroutines with your source programs, whether you work in Microsoft® BASIC, Microsoft® C, Microsoft® FORTRAN, or Microsoft® Pascal. You can produce fast, powerful software and still do most of your programming in your favorite language. Microsoft Macro Assembler is a complete software development package that offers a high-speed assembler; Microsoft CodeView, a powerful window-oriented, source-level debugger; advanced utilities; and clear, complete documentation.

- New! Supports mixed-language programming. Includes template programs for Microsoft BASIC, Microsoft C, Microsoft Pascal, and Microsoft FORTRAN.
- New! Includes Microsoft CodeView, a remarkable source-level debugger that works with programs and subroutines written in Microsoft Macro Assembler.\*
- New! Assembles 25-40% faster than Version 4.0—the fastest assembler for the personal computer.
- New! Supports the 80386/80387 instruction set. Automatically generates the correct code for both 16- and 32-bit segments.
- New! Provides simplified segmentation directives so you can easily write assembly-language subroutines for all memory models (small, medium, large, and huge).
- New! Microsoft CodeView supports Expanded Memory Specification (EMS) to allow the debugging of especially large programs.
- New! Improved and expanded documentation includes an easy-to-use reference manual that fully documents the 8086/80286/80386 and 8087/80287/80387 instruction sets.

\*Microsoft CodeView will be compatible with Microsoft QuickBASIC 4.0 and Microsoft Pascal 4.0.

**Microsoft®**



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City	State	Zip
( )		
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Product number on disk		
Name of product as it appears on manual cover		
Date of product purchase      /      /		
(Month)      (Day)      (Year)		

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4. Put that card, the defective component, a photocopy of your proof-of-purchase, and full details about the problem in a protected envelope or box, and mail it all together to the address listed on the card.



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State

Zip

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